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L2	6	(63513112\|6598037\|6466943\|6421682).pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/28 14:22
L3	8	(6513112\|6598037\|6466943\|6421682).pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/28 14:22

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41 Facial modeling and animation

Jörg Haber, Demetri Terzopoulos

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(18.15 MB) Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

42 PolyD: a flexible dispatching framework

Antonio Cunei, Jan Vitek

October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

Full text available: pdf(1.70 MB) Additional Information: full citation, abstract, references, index terms

The standard dispatching mechanisms built into programming languages are sometimes inadequate to the needs of the programmer. In the case of Java, the need for more flexibility has led to the development of a number of tools, including visitors and multi-method extensions, that each add some particular functionality, but lack the generality necessary to support user-defined dispatching mechanisms. In this paper we advocate a more modular approach to dispatching, and we present a tool, PolyD, tha ...

Keywords: Java, dispatching, multimethods, visitor pattern

43 Web-based simulation in Simjava using remote method invocation

Ernest H. Page, Robert L. Moose, Sean P. Griffin

December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(722.73 KB) Additional Information: full citation, references, citings, index terms

44 Conversation-based mail

Douglas E. Comer, Larry L. Peterson
September 1986 **ACM Transactions on Computer Systems (TOCS)**, Volume 4 Issue 4
Publisher: ACM Press

Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A new message communication paradigm based on conversations that provides an alternative to memo- and conference-based mail is described. A conversation-based message system groups messages into conversations, and orders messages within a conversation according to the context in which they were written. The message context relation leads to an efficient implementation of conversations in a distributed environment and suppor ...

45 Data sharing in group work

Irene Greif, Sunil Sarin
April 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 2
Publisher: ACM Press

Full text available: pdf(2.14 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Data sharing is fundamental to computer-supported cooperative work: People share information through explicit communication channels and through their coordinated use of shared databases. This paper examines the data management requirements of group work applications on the basis of experience with three prototype systems and on observations from the literature. Database and object management technologies that support these requirements are briefly surveyed, and unresolved issues in the par ...

46 The simulation of hospital patient treatment systems

Henry R. Grooms, Tung Au
December 1969 **Proceedings of the third conference on Applications of simulation**
Publisher: Winter Simulation Conference

Full text available: pdf(688.51 KB) Additional Information: full citation, abstract, references, citings, index terms

A simulation model of function-oriented patient treatment systems in general hospitals is proposed for studying the effectiveness of scheduling diagnostic and clinical treatments for patients. The effectiveness of a system can be measured by a number of criteria. The simulation model is characterized by a computerized procedure for generating a tentative feasible schedule and for improving the schedule according to certain heuristics. Possible applications of the simulated model are briefly ...

47 Hypertext and pluralism: from lineal to non-lineal thinking

Wiliam O. Beeman, Kenneth T. Anderson, Gail Bader, James Larkin, Anne P. McClard, Patrick McQuillan, Mark Shields
November 1987 **Proceeding of the ACM conference on Hypertext HYPERTEXT '87**
Publisher: ACM Press

Full text available: pdf(1.91 MB) Additional Information: full citation, abstract, references, citings, index terms

One goal of American and Northern European higher education is to promote acquisition of a pluralistic cognitive style, which has as an important property— non-lineality. This paper investigates the effects of using of an advanced hypertext/hypermedia system,

Intermedia, to develop instructional materials for two university courses in English and Biology intended to promote acquisition of non-lineal thinking. Use of Intermedia is shown to produce significant learning effects, ...

48 BOTS: a constraint-based component system for synthesizing scalable software systems

Raju Pandey, Jeffrey Wu
June 2006 **ACM SIGPLAN Notices , Proceedings of the 2006 ACM SIGPLAN/SIGBED conference on Language, compilers and tool support for embedded systems LCTES '06**, Volume 41 Issue 7
Publisher: ACM Press
Full text available: pdf(211.98 KB) Additional Information: full citation, abstract, references, index terms

Embedded application developers create applications for a wide range of devices with different resource constraints. Developers want to maximize the use of the limited resources available on the device while still not exceeding the capabilities of the device. To do this, the developer must be able to scale his software for different platforms. In this paper, we present a software engineering methodology that automatically scales software to different platforms. We intend to have the application ...

Keywords: components, constraints, embedded systems, generative programming, runtime systems, wireless sensor networks

49 An open-source CVE for programming education: a case study: An open-source CVE for programming education: a case study

Andrew M. Phelps, Christopher A. Egert, Kevin J. Bierre, David M. Parks
July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**
Publisher: ACM Press
Full text available: pdf(7.92 MB) Additional Information: full citation, references

50 Abstracts—nuclear reactor codes

Virginia Nather, Ward Sangren
January 1959 **Communications of the ACM**, Volume 2 Issue 1
Publisher: ACM Press
Full text available: pdf(3.51 MB) Additional Information: full citation

51 Semantic database modeling: survey, applications, and research issues

Richard Hull, Roger King
September 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(5.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Most common database management systems represent information in a simple record-based format. Semantic modeling provides richer data structuring capabilities for database applications. In particular, research in this area has articulated a number of constructs that provide mechanisms for representing structurally complex interrelations among data typically arising in commercial applications. In general terms, semantic modeling complements work on knowledge representation (in artificial int ...

52 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, ...

Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)
July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(6.19 MB) Additional Information: full citation, index terms

53 The elements of nature: interactive and realistic techniques
Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(17.65 MB) Additional Information: full citation, abstract

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

54 Fortran 8X draft
Loren P. Meissner
December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4
Publisher: ACM Press
Full text available: pdf(21.36 MB) Additional Information: full citation, abstract, index terms

Standard Programming Language Fortran. This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

55 Concurrency and distribution in object-oriented programming
Jean-Pierre Briot, Rachid Guerraoui, Klaus-Peter Lohr
September 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 3
Publisher: ACM Press
Full text available: pdf(289.34 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper aims at discussing and classifying the various ways in which the object paradigm is used in concurrent and distributed contexts. We distinguish among the library approach, the integrative approach, and the reflective approach. The library approach applies object-oriented concepts, as they are, to structure concurrent and distributed systems through class libraries. The integrative approach consists of merging concepts such as obj ...

Keywords: concurrency, distribution, integration, libraries, message passing, object, reflection

56 Surveying current research in object-oriented design
Rebecca J. Wirfs-Brock, Ralph E. Johnson
September 1990 **Communications of the ACM**, Volume 33 Issue 9

Publisher: ACM Press

Full text available: pdf(2.82 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The state of object-oriented is evolving rapidly. This survey describes what are currently thought to be the key ideas. Although it is necessarily incomplete, it contains both academic and industrial efforts and describes work in both the United States and Europe. It ignores well-known ideas, like that of Coad and Meyer [34], in favor of less widely known projects.Research in object-oriented design can be divided many ways. Some research is focused on describing a design process. ...

57 XML query processing I: Dynamic XML documents with distribution and replication

Serge Abiteboul, Angela Bonifati, Grégory Cobéna, Ioana Manolescu, Tova Milo

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

Publisher: ACM Press

Full text available: pdf(209.06 KB) Additional Information: full citation, abstract, references, citings, index terms

The advent of XML as a universal exchange format, and of Web services as a basis for distributed computing, has fostered the apparition of a new class of documents: *dynamic XML documents*. These are XML documents where some data is given explicitly while other parts are given only intensionally by means of embedded calls to web services that can be called to generate the required information. By the sole presence of Web services, dynamic documents already include inherently some form of di ...

58 Object-oriented composition untangled

Klaus Ostermann, Mira Mezini

October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '01**, Volume 36 Issue 11

Publisher: ACM Press

Full text available: pdf(681.61 KB) Additional Information: full citation, abstract, references, citings, index terms

Object-oriented languages come with pre-defined composition mechansims, such as inheritance, object composition, or delegation, each characterized by a certain set of composition properties, which do not themselves individually exist as abstractions at the language level. However, often non-standard composition semantics is needed, with a mixture of composition mechanisms. Such non-standard semantics are simulated by complicated architectures that are sensitive to requirement changes and cannot ...

59 Latency and topology: Measurement based analysis, modeling, and synthesis of the internet delay space

Bo Zhang, T. S. Eugene Ng, Animesh Nandi, Rudolf Riedi, Peter Druschel, Guohui Wang

October 2006 **Proceedings of the 6th ACM SIGCOMM on Internet measurement IMC '06**

Publisher: ACM Press

Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, index terms

Understanding the characteristics of the Internet delay space (i.e., the all-pairs set of static round-trip propagation delays among edge networks in the Internet) is important for the design of global-scale distributed systems. For instance, algorithms used in overlay networks are often sensitive to violations of the triangle inequality and to the growth properties within the Internet delay space. Since designers of distributed systems often rely on simulation and emulation to study design alte ...

Keywords: analysis, distributed system, internet delay space, measurement, modeling,

simulation, synthesis

60 DSM: an object-relationship modeling language



A. V. Shah, J. H. Hamel, R. A. Borsari, J. E. Rumbaugh

September 1989 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '89**

Volume 24 Issue 10

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms

The Data Structure Manager (DSM) combines object-oriented programming with semantic data modeling concepts in the context of the C language. DSM is a full-featured object-oriented language which includes single and multiple inheritance, class descriptor objects, metaclasses, choice of method binding time, error handling, persistent objects, modularity, and an interactive interpreter in an efficient manner. In addition, DSM supports the association and aggregation relationships as part of th ...

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